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Bulletin 415 August, 1954

NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION

Department of Agronomy

Results of Seed Tests for 1954

Made for the
STATE DEPARTMENT OF AGRICULTURE

By BESSIE G. SANBORN

THE UNIVERSITY OF NEW HAMPSHIRE
DURHAM, N. H.

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RESULTS OF SEED TESTS

Made July 1, 1953, to June 30, 1954

This report contains the results of the seed inspection work for the State Department of Agriculture of 695 official samples collected throughout the state during the period from July 1, 1953, to June 30, 1954, by Mr. George H. Laramie, Control Supervisor, and Mr. Harold Ayer, Assistant Control Supervisor. In addition to these official samples, 1229 private samples were analyzed, making a total of 1924 samples inspected.

Wholesalers are listed in alphabetical order except when samples are presumed to have been carried over, in which case they are listed alphabetically by dealers. The New Hampshire seed law requires that both agricultural and vegetable seeds must be labeled with the calendar month and year when last tested for germination, and requires that this germination test shall have been completed within nine months of being offered for sale. In the following tables, if the date of test was within the prescribed nine months, the sample is marked satisfactory, "S" in this respect; if no date was given, the word "None" appears indicating a violation; if the date was a violation of the law because the test was not made within nine months, the date given on the tag or label appears in that column.

The first part of the report deals with 161 samples of agricultural seed tested for purity, germination and noxious weed content. There is a tolerance or allowable variation from the guarantee for both purity and germination, in accordance with the Rules for Seed Testing adopted by the Association of Official Seed Analysts, so that, for instance a sample of timothy guaranteed 99.20 for purity and 85% for germination could test as low as 98.25% for purity and 77% for germination and be "satisfactory." If a sample when tested for purity falls within the allowable variation, it is marked "S" (satisfactory); if below the allowable variation, and therefore a violation, the actual figure found for purity is given. The same is true for germination in the case of agricultural seeds.

The second part of the report applies to 534 samples of vegetable seeds which were tested for germination only. The New Hampshire seed law requires that unless each packet or other container is plainly marked "Below Standard" together with the percentage of germination, vegetable seeds must test up to the prescribed standard for that kind of seed, and that there is no tolerance from the adopted standards. In the column headed "Found" if the same was up to standard, an "S" (satisfactory) appears. The exception to this is in the case of a given sample being marked with a guarantee, which is not required if vegetable seed is up to standard; then, if the seed is found to be below the regular tolerance from that guaranteed figure, the figure found upon test followed by "†" is listed as "mislabeled" even though it might in some cases be up to standard.

The New Hampshire seed law and the rules and regulations thereunder, including the germination standards for vegetable seed, follow:

STATE OF NEW HAMPSHIRE

CHAPTER 224, REVISED LAWS
(As inserted by Chapter 54 Laws of 1943)

AN ACT

To Regulate the Labeling, Sale and Offering or Exposing for Sale, of Agricultural and Vegetable Seeds.

Agricultural and Vegetable Seeds

1. **Definitions.** Terms used in this chapter shall be construed as follows:

I. The term "agricultural seeds" shall include the seeds of grass, forage, cereal and fiber crops and any other kinds of seeds commonly recognized within this state as agricultural or field seeds, and mixtures of such seeds.

II. The term "vegetable seeds" shall include the seeds of those crops which are grown in gardens or on truck farms and are generally known and sold under the name of vegetable seeds in this state.

III. The term "weed seeds" shall include the seeds of all plants generally recognized as weeds within this state, and shall include noxious weed seeds.

IV. Noxious weed seeds shall be divided into two classes, "primary noxious weed seeds" and "secondary noxious weed seeds" as herein defined; provided, that the commissioner of agriculture may add to or subtract from the list of seeds included under either definition whenever he finds that such additions or subtractions are within the respective definitions.

V. "Primary noxious weed seeds" shall include the seeds of perennial weeds such as those that reproduce and spread by underground roots or stems as well as by seed and which, when established, are highly destructive and difficult to control in this state by ordinary good cultural practice. Primary noxious weed seeds in this state are the seeds of: Canada thistle (Cirsium arvense), field bindweed (Convolvulus arvensis), and quackgrass (Agropyron repens).

VI. "Secondary noxious weed seeds" shall include the seeds of such weeds as are very objectionable in field, lawns, or gardens of this state, but can be controlled by good cultural practices. The secondary noxious weed seeds in this state are the seeds of: dodder (Cuscuta spp.) and crab grass (Digitaria sanguinalis).

VII. The term "labeling" includes all labels, and other written, printed, or graphic representations, in any form whatsoever, accompanying and pertaining to any seed whether in bulk or in containers, and includes invoices.

VIII. The term "advertisement" means all representations, other than those on the label, disseminated in any manner or by any means, relating to seed within the scope of this chapter.

2. **Label Requirement.** Each separate container of agricultural or vegetable seed, including seeds in small packets, which is sold, offered for sale, or exposed for sale, within this state for sowing purposes shall bear thereon or have attached thereto in a conspicuous place a plainly written or printed label or tag in the English language, giving the information as set forth in sections 3 and 4.

3. **Agricultural Seeds.** For agricultural seeds the following is required:

I. Commonly accepted name of kind, or kind and variety, of each agricultural seed component in excess of five per cent of the whole and the percentage by weight of each. Where more than one component is required to be named, the word "mixture" or "mixed" shall be associated with the name on the label.

II. Lot number or other lot identification.

III. Origin, if known, of alfalfa, red clover and field corn (except hybrid corn). If the origin is unknown, that fact shall be stated.

IV. Percentage by weight of all weed seeds, including those known as noxious weeds.

V. If present, the names of the kinds of secondary noxious-weed seeds and the rate of occurrence of each: (A) Per ounce in Agrostis spp., Poa spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues, alsike and white clover, reed canary grass, Dallis grass, ryegrass, foxtail millet, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixture within this group, and

(B) Per pound in proso, Sudan grass, wheat, oats, rye, barley, buckwheat, sorghums, vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group, or any mixtures within this group. All determinations of noxious-weed seeds shall be subject to tolerances and methods of determination prescribed in the rules and regulations under this chapter.

VI. Percentage by weight of agricultural seeds other than those required to be named on the label.

VII. Percentage by weight of inert matter.

VIII. For each named agricultural seed, percentage of germination, exclusive of hard seed, percentage of hard seed, if present, and the calendar month and year the test was completed to determine such percentages.

IX. Name and address of the person who labeled said seed, or who sells, offers, or exposes said seed for sale within this state.

4. **Vegetable Seeds.** For vegetable seeds, the following is required:

I. Name of kind and variety of seeds, and the calendar month and year when last tested for germination.

II. For seeds which germinate less than the standard last established by the commissioner of agriculture hereunder, and in type not

smaller than ten point size: percentage of germination exclusive of hard seed; percentage of hard seed, if present; and the words, "below standard."

III. Name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this state.

5. **Illegal Sales.** It shall be unlawful for any person to sell, offer for sale or expose for sale any agricultural or vegetable seed within this state:

I. Unless the test to determine the percentage of germination required by sections 3 and 4 shall have been completed within a nine-month period, exclusive of the calendar month in which the test was completed, immediately prior to sale, exposure for sale, or offering for sale or transportation.

II. Not labeled in accordance with the provisions hereof, or having a false or misleading labeling.

III. Pertaining to which there has been a false or misleading advertisement.

IV. Any agricultural seeds containing any primary noxious weed seeds except as may be allowed under tolerances prescribed in the rules and regulations hereunder.

6. **Prohibitions.** It shall be unlawful for any person within this state:

I. To detach, alter, deface, or destroy any label provided for herein or the rules and regulations made and promulgated hereunder, or to alter or substitute seed, in a manner that may defeat the purposes hereof.

II. To disseminate any false or misleading advertisement concerning agricultural or vegetable seed in any manner or by any means.

III. To hinder or obstruct in any way any authorized person in the performance of his duties hereunder.

IV. To fail to comply with a "stop sale" order.

7. **Exemptions.** The provisions of sections 2 to 6, inclusive, do not apply to seed or grain not intended for sowing purposes, nor to seed in storage in, or consigned to, a seed cleaning or processing establishment for cleaning or processing, provided, that any labeling or other representation which may be made with respect to the unclean seed shall be subject to the provisions hereof.

8. **Exceptions.** No person shall be subject to the penalties hereof for having sold, offered or exposed for sale in this state any agricultural or vegetable seeds, which were incorrectly labeled or represented as to kind, variety, or origin which seeds cannot be identified by examination thereof, unless he has failed to take all proper precautions to insure the identity to be that stated in accordance with rules and regulations hereunder.

9. **Duties and Authority of Commissioner of Agriculture.** The commissioner of agriculture, who may act through his authorized agents, shall have the power:

I. To sample, inspect, make analyses of, and test, agricultural and vegetable seeds transported, sold, offered or exposed for sale within

this state for sowing purposes, at such time and place and to such extent as he may deem necessary to determine whether said agricultural or vegetable seeds are in compliance with the provisions hereof, and to notify promptly the person who transported, sold, offered or exposed the seed for sale, of any violation.

II. To prescribe, and after public hearing to adopt, rules and regulations governing the methods of sampling, inspecting, analysis, tests, and examination of agricultural and vegetable seed, and the tolerances to be followed in the administration hereof, which shall be in general accord with officially prescribed practice in interstate commerce, and such other rules and regulations as may be necessary to secure the efficient enforcement hereof.

III. To enter upon any public or private premises during regular business hours in order to have access to seeds subject to this chapter and the rules and regulations promulgated hereunder.

IV. To issue written or printed "stop sale" orders which shall prohibit further sale of any lot of agricultural or vegetable seed which the commissioner has reason to believe is in violation of any of the provisions hereof until the law has been complied with or said violation otherwise legally disposed of: Provided, that no "stop sale" order shall be issued or attached to any lot of seed without first giving the owner or custodian of such seed an opportunity to comply with the law or to withdraw the seed from sale.

V. To establish and maintain or make provision for seed testing facilities, to employ qualified persons, and to incur such expenses as may be necessary to comply with these provisions.

VI. To make or provide for making purity and germination tests of seeds for farmers and dealers on request; to prescribe rules and regulations governing such testing; and to fix and collect charges for the tests made. All fees collected hereunder shall be paid over by the commissioner to the state treasurer who shall keep the same in a special fund to be used only for the purposes of this chapter.

VII. To co-operate with the United States Department of Agriculture in seed law enforcement.

10. **Seizure.** Upon the recommendation of the commissioner of agriculture or his duly authorized agents, the court of competent jurisdiction in the area in which the seed is located shall cause the seizure and subsequent denaturing, processing, or destruction to prevent the use for sowing purposes of any lot of agricultural or vegetable seed found to be unfit for sowing purposes: Provided, that in no instances shall the denaturing, processing, or destruction be orderd without first having given the claimant of said seed an opportunity to apply to said court for the release of said seed.

11. **Penalties.** Whoever violates any of the provisions of this chapter or any rule or regulation promulgated hereunder shall be fined not exceeding one hundred dollars for the first offense and not exceeding two hundred and fifty dollars for each subsequent offense. Fines collected hereunder shall be paid, by the court collecting the same, to the commissioner of agriculture and by him forwarded to the state treasurer for the use of the state.

12. **Publication.** The commissioner of agriculture shall publish, or cause to be published, the results of test and analyses of samples of agricultural and vegetable seeds, as herein provided, together with the names and addresses of the persons from whom the samples of seed were obtained. He may publish such other information as he may deem advisable concerning the value, character and use of certain seeds.

13. **Takes Effect.** This act shall take effect upon its passage. Approved March 10, 1943.

Sampling.

(a) In order to secure a representative sample, equal portions shall be taken from evenly distributed parts of the quantity of seed to be sampled. Access shall be had to all parts of that quantity.

(b) For free-flowing seed in bags or bulk, a probe or trier shall be used. For small free-flowing seed in bags, a probe or trier long enough to sample all portions of the bag should be used.

(c) Non-free-flowing seed, such as certain grass seed, uncleaned seed, or screenings, difficult to sample with a probe or trier, shall be sampled by thrusting the hand into the bulk and withdrawing representative portions.

(d) The portions shall be combined into a composite sample or samples.

(e) As the seed is sampled, each portion shall be examined, and whenever there appears to be a lack of uniformity, additional samples shall be taken to show such lack of uniformity as may exist.

Bulk seeds shall be sampled by inserting a long probe or thrusting the hand into the bulk as circumstances require in several uniformly distributed parts of the quantity being sampled.

Bags. (1) In quantities of five bags or less, each bag shall be sampled.

(2) In quantities of more than five bags, at least every fifth bag but not less than five bags shall be sampled. Samples shall be drawn from unopened bags except under circumstances where the identity of the seed has been preserved.

In sampling packet seeds, entire unopened packets shall be taken.

Size of sample. The following are minimum weights of samples of seed to be submitted for analysis, test, or examination:

(1) Two ounces of grass seed not otherwise mentioned, white or alsike clover, or seeds not larger than these.

(2) Five ounces of red or crimson clover, alfalfa, ryegrass, bromegrasses, millet, flax, rape, or seeds of similar size.

(3) Two pounds of cereals, vetches, or seeds of similar or larger size.

(4) Two quarts of screenings.

Analysis.

The New Hampshire seed laboratory will be guided in making purity and germination tests by the rules and regulations prescribed under the Federal Seed Act.

Tolerance.

Owing to the natural variation between tests, the following tolerances shall be allowed between the percentages found by analysis, test or examination and the percentages stated on the tag accompanying the seed:

For purity: Allowing "a" to represent the component being considered and "b" the difference between that percentage and 100, according to the following formula:

$$\text{Pure seed tolerance} = 0.6 + \left(0.2 \times \frac{a \times b}{100} \right)$$

a sample of timothy guaranteed 99.2% could test as low as 98.25% and be "satisfactory."

For germination: The following tolerances are applicable:

Healthy sprouts found by test in each 100 seeds	Tolerance
96 or over	5
90 or over but less than 96	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

Therefore, a sample of seed guaranteed 85% for germination may be as low as 77% and be "satisfactory."

For weed seeds: The law requires in the labeling of agricultural seed (1) that the percentage of all weed seeds persent shall be shown on the tag, (2) that no primary noxious weed seeds shall be present in the sample, and (3) that, if present, the names of the kinds of secondary noxious weed seed and the rate of occurrence of each shall be stated: (A) Per ounce in Agrostis spp., Poa spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues, alsike and white clover, reed canary grass, Dallis grass, ryegrass, foxtail millet, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixtures within this group, and

(B) Per pound in proso, Sudan grass, wheat, oats, rye, barley, buckwheat, sorghums, vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group, or any mixtures within this group.

Certain tolerances are allowed, however, to provide for variation and unavoidable errors, but only within very narrow limits and for which there is always a standard formula for computation. Examples: (1) Timothy guaranteed only 2 per cent weed seeds will not be condemned if it has a 2.59 per cent. (2) No primary noxious weed seeds are allowed, but the presence of two such seeds in 50 grams of timothy would not be considered a violation. (3) Similarly, some slight variation from the minimum requirement for labeling secondary noxious weed seeds will be passed as satisfactory.

Free Testing

The Seed Testing Laboratory will allow two free tests, in a given year, to any resident company or person of New Hampshire, but such seeds must be received in the laboratory during the months of October, November, December and January. This number of samples, not including mixtures, may be analyzed either for purity or for germination, or one sample for both purity and germination, free of charge. A

given seed company will be entitled to two private tests without charge, but not two from each branch store. For numbers in excess of two, a charge will be made for labor and consumable supplies only, the amount depending on the type of sample according to the following schedule:

Germination tests of all vegetable seeds, 30 cents;

Germination tests of all agricultural crop seeds and grasses, 50 cents;

Germination tests of mixtures, 50 cents for each kind of seed present;

Purity analyses of cereals, timothy and larger crop seeds and legumes, $1.00;

Purity analyses of small grasses, $2.00; unhulled redtop, $2.50;

Purity analyses of mixtures, including those for lawn and pasture seeding, a charge sufficient to cover the actual cost of working the sample submitted for test, minimum charge of $2.50.

Such private samples of seed to be tested should be drawn in such a way as to be representative of the bulk lot from which they are taken, and should be addressed to the State Seed Testing Laboratory, Durham, New Hampshire. Such private tests cannot be declared as state official tests unless drawn by a representative of the department of agriculture, as provided in Chapter 224 of the Public Laws. Fees must be paid before reports will be sent out.

The minimum weights of samples to be submitted for analyses are:

1. Two ounces of grass seed, white or alsike clover, or seeds not larger than these.

2. Five ounces of red or crimson clover, alfalfa, rye grasses, milet, rape, or seeds of similar size.

3. One pound of cereal, vetches or seeds of similar or larger size.

The minimum number of seeds of any one kind to be submitted for a germination test is 400.

Germination Standards for Vegetable Seed.

Following are the germination standards established by the commissioner of agriculture pertaining to Section four of the act entitled Vegetable Seeds.

Artichoke	60	Cabbage	75
Asparagus, including hard seeds	70	Chinese cabbage	75
Beans, garden (varieties other than Rival, Topcrop and Logan)	75	Carrot	55
Beans, garden (varieties Rival, Topcrop and Logan)	70	Cauliflower	75
Beans, horse or broad	75	Celery and celeriac	55
Beans, lima	70	Chicory	65
Beans, runner	75	Citron	65
Beets	65	Collards	80
Broccoli	75	Corn	75
Brussels sprouts	70	Cress, garden	60
		Cress, water	40
		Cucumber	80
		Dandelion	45
		Eggplant	60

Endive	70	Radish	75
Fetticus (cornsalad)	70	Rhubarb	60
Kale	75	Rutabaga	75
Kohlrabi	75	Salsify	75
Leek	60	Sorrel	60
Lettuce	80	Soybean	75
Muskmelon	75	Spinach (except New Zealand)	60
Mustard	75	Spinach (New Zealand)	40
Okra	50	Squash	75
Onion	70	Swiss Chard	65
Parsley	60	Tomato	75
Parsnip	60	Tomato, husk	50
Peas	80	Turnip	80
Pepper	55	Watermelon	70
Pumpkin	75		

Labeling.

The following labels are suggested as meeting the minimum requirements of the New Hampshire seed law.

Example for unmixed agricultural seed:

John F. Doe Company
Greene, N. H.

Mammoth Clover

Pure seed	98.65
Crop seed	.86
Weeds	.38
Inert matter	.11

Origin Idaho

1 dodder per oz.

Lot No. 243

Germination	80%
Hard seeds	7

Date of test Jan. (current year)*

Example for mixed agricultural seed:

John F. Doe Company
Greene, N. H.

Grass seed, mixed

Purity:	
Perennial rye grass	32.23%
Chewing fescue	18.08
Kentucky bluegrass	14.75
Canada bluegrass	15.37
Creeping bent	14.20
Crop seed	.61
Weed seed	2.07
Inert matter	2.69

5 Crabgrass per oz.

Lot No. 0236

Germination:	
92.5%	Jan. (current year)*
85.0%	Jan. (current year)*
80.0%	Jan. (current year)*
58.5%	Jan. (current year)*
84.0%	Jan. (current year)*

Example for vegetable seed:

(Up to standard)	New York Lettuce John Smith, Dale, Ill. Date of germination test: Feb. 7 (cur. yr.)*
(For vegetable seed which germinates less than standard)	New York Lettuce John Smith, Dale, Ill. Date of germination test: Feb. 7 (cur. yr.)* Germination 75% BELOW STANDARD

The law states that "each separate container of agricultural or vegetable seed, including seeds in small packets, shall be labeled"; but if a dealer has bulk lots of seeds exposed for sale and these bulk lots are properly labeled, he shall not be required to copy the information from the label on to each individual bag in which he delivers small lots of this bulk seed over the counter to customers.

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* "Current year in this sample labeling means the month and year of the last germination test which must be stated and be within nine (9) months of the date the seeds are offered or exposed for sale. See par. 5 Section 1 of the law itself."

AGRICULTURAL SEED INSPECTION, 1954

Name and Address of Wholesaler Name and Address of Dealer or Place Collected Kind of Seed	Sample No.	Date Tested*		Pure Seed	Other Crop Seed	Weed Seed	Inert Matter	Germination	Remarks
ALLEN, STERLING & LOTHROP, Portland, Me.				(Note)	(Note)	(Note)	(Note)	(Note)	
Arthur L. Potter, Conway									
Corn, Maine B, 3810	4944	S	L	99.50	..	..	.50	80	
			F	S	S	S	S	S	
Ladino clover, B-2550	4942	S	L	99.51	.43	.03	.03	90	
			F	S	S	S	S	S	
Red clover, 5497	4943	S	L	98.33	1.53	.04	.10	90	
			F	S	S	S	S	S	
Timothy, 5820	4945	S	L	99.60	.20	.05	.15	87	
			F	S	S	S	S	S	
BONNIE GREEN PRODUCTS, Philadelphia, Pa.									
Holbrook Grocery Co., Keene									
Grass Seed, Bonnie Green All Purpose 500-84	4666	S	L		.25	.50	3.30		
			F		.72	S	S		Other crop seed excessive.
Common ryegrass			L	43.00				90	
English perennial ryegrass			L	24.20				85	
Ryegrass			F	S				S	
Alta fescue			L	18.00				85	
			F	S				S	
Timothy			L	9.75				80	
			F	S				S	
White clover			L	1.00				88	
			F	S				S	
JOSEPH BRECK & SONS, Boston, Mass.									
Haskins Hardware, Wolfeboro									
White Dutch Lawn Clover, 83-40	4924	S	L	99.37	.13	.00	.40	82	
			F	S	S	S	S	S	
Johnson Hardware, Dover									
Grass Seed, Evergreen, No. 80561	4757	S	L		..	.50	11.20		
			F		S	S	S		
Timothy			L	39.20				80	
			F	S				S	
Domestic ryegrass			L	29.70				90	
			F	S				S	
Redtop			L	10.00				80	
			F	S				S	
White and Alsike clover			L	4.90				65	
			F	S				S	
Poa trivialis			L	4.50				85	
			F	S				S	

* As stated on accompanying tag. "S" in this column indicates that date of test was in compliance with law. Figures or "None" indicate violation.
Note: L=Label; F=Found. "S" in the Found line indicates that the sample was satisfactory in relation to the guarantee. Figures indicate violation.

Name and Address of Wholesaler Name and Address of Dealer or Place Collected Kind of Seed	Sample No.	Date Tested*		Pure Seed	Other Crop Seed	Weed Seed	Inert Matter	Germination	Remarks
ARTHUR R. CONE, INC., Buffalo, N. Y.				(Note)	(Note)	(Note)	(Note)	(Note)	
General Mills, Inc., Exeter									
Alfalfa, Ranger, 28-674	4926	S	L	99.50	..	.02	.48	71	
			F	S	S	S	S	S	
Ladino clover, 35-146	4928	S	L	99.73	..	.09	.18	85.5	
			F	S	S	S	S	S	
Red clover, Medium, 15-20	4925	S	L	99.28	.38	.28	.06	80.25	
			F	S	S	S	S	S	
Redtop, 30-261	4927	S	L	92.14	2.40	.96	4.50	90	
			F	S	S	S	S	S	
Timothy, 10-191	4929	S	L	99.70	.25	.05	Trace	90	
			F	S	S	S	S	S	
Kashulines Grain, Nashua									
Alfalfa, Cert. Ranger, 28-643	4901	S	L	99.78	.01	.01	.20	88	
			F	S	S	S	S	S	
Brome grass, 43-94	4898	S	L	85.00	.30	.60	14.10	80	
			F	S	S	S	S	S	
Corn, Arco 90 Hybrid, 84 x 513	4899	S	L	99.80	..	..	.20	90	
			F	S	S	S	S	S	
Corn, Westbranch Sweepstakes, 80-600	4902	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	S	
Reed canary grass, 44-70	4900	S	L	99.64	.01	.05	.30	70	
			F	S	S	S	S	S	
Lakes Region Feed, Laconia									
Ladino clover, 35 x 79	4770	S	L	99.00	.66	.11	.23	84	
			F	S	S	S	S	S	
Moulton & Goodwin, Portsmouth									
Ladino clover, 35-140	4917	S	L	99.25	.55	.05	.15	82	
			F	S	S	S	S	S	
Timothy, 10 x 208	4915	S	L	99.40	.40	.15	.05	85	
			F	S	S	S	S	S	
White clover, 32-148	4918	S	L	98.36	1.50	.02	.12	81	
			F	S	S	S	S	S	
Sunshine Feed Store, Manchester									
Corn, Cornell 29-3, 84 T 395	4825	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	S	
Timothy, 10-144	4826	S	L	99.70	.13	.05	.12	81	
			F	S	S	S	S	S	
Sunshine Feed Stores, Inc., West Lebanon									
Barley, Erie, 52 R 305	4880	S	L	99.49	.06	..	.45	84	
			F	S	S	S	S	S	
Buckwheat, mixed, 58 x 198	4888	S	L	99.38	..	.56	.06	91	
			F	S	S	S	S	S	
Corn, Arco 95 Hybrid, 84 T 397	4890	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	S	
Corn, King 300 Hybrid, 84 T 419	4891	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	S	

Hungarian millet, 90-378	4879	S	L 98.00	.05	.45	1.50	87	Both purity and germination below guarantee; weed seeds excessive.
			F 94.34	S	5.38	S	74	
Oats, Cert. Clinton No. 11, 50 T 617	4878	S	L 99.72	..	..	.28	96	
			F S	S	S	S	S	
Perennial ryegrass, 39-141	4884	S	L 99.28	..	..	.62	93	
			F S	S	S	S	S	
Soybeans, Hawkeye, 62-165	4881	S	L 99.25	.03	..	.72		
			F S	S	S	S	S	
CHAS. M. COX CO., Boston, Mass.								
Wirthmore Feed Co., Manchester								
Oats, Clinton No. 1	4875	S	L 99.00	.25	.05	.70	90	
			F S	S	S	S	S	
ALBERT DICKINSON CO., Chicago, Ill.								
Merrimack Farmers' Exch., Inc., Concord								
Ladino clover, 26907-02696	4896	S	L 99.50	.10	.20	.20	68	
			F S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Derry								
Timothy, 66578-79	4894	S	L 99.70	.20	.05	.05	90	
			F S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Exeter								
Timothy, 66578-79	4542	S	L 99.70	.20	.05	.05	90	
			F S	S	S	S	S	
N. H. State Hospital, Concord								
Canada Field Peas, 8520	4642	S	L 99.50	..	..	.50	85	
			F S	S	S	S	S	
EASTERN STATES FARMERS' EXCH., Inc., West Springfield, Mass.								
Eastern States Farmers' Exch., Inc., Dover								
Alfalfa, Variegated, No. 94	4767	S	L 99.50	.05	.10	.35	59	
			F S	S	S	S	S	
Birdsfoot trefoil, 1378	4766	S	L 97.50	2.17	.16	.17	52	
			F S	S	S	S	S	
Hungarian millet, 1335	4764	S	L 99.00	.15	.20	.65	65	
			F S	S	S	S	S	
Japanese millet, 1384	4765	S	L 99.00	.05	.30	.65	80	
			F S	S	S	S	S	
Lawn mixture, Velvet Green, 1378	4769	S	L	.35	.30	5.35		
			F	S	S	S		
Kentucky bluegrass			L 16.65				90	
			F S				S	
Poa trivialis			L 9.02				90	
			F S				S	
Creeping red fescue			L 53.46				90	
			F S				S	
Colonial bentgrass			L 4.95				90	
			F S				S	
Domestic ryegrass			L 9.92				90	
			F S				S	

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EASTERN STATES FARMERS' EXCH., Inc., West Springfield, Mass. (Continued)				(Note)	(Note)	(Note)	(Note)	(Note)	
Eastern States Farmers' Exch., Inc., Dover (Continued)									
Timothy, 1336	4768	S	L	99.60	.15	.10	.15	90	
			F	S	S	S	S	S	
Eastern States Farmers' Exch., Inc., Manchester									
Birdsfoot trefoil, 1351	4523	S	L	98.43	1.10	.23	.24	64	
			F	S	S	S	S	S	
Corn, Mass. 63, 1334	4525	S	L	99.50	..	..	.50	92	
			F	S	S	S	S	S	
Corn, Wisconsin 416 AA, 1255	4529	S	L	99.50	..	..	.50	85	
			F	S	S	S	S	S	
Ladino clover, 1346	4526	S	L	99.50	.10	.10	.30	77	
			F	S	S	S	S	S	
Red fescue, creeping, 1375	4522	S	L	97.25	.45	.15	2.15	90	
			F	S	S	S	S	S	
Reed canary grass, 1359	4527	S	L	98.50	.20	.20	1.10	80	
			F	S	S	S	S	S	
Ryegrass, domestic, 981	4524	S	L	99.50	.05	.35	.10	90	
			F	S	S	S	S	S	
Timothy, 1336	4528	S	L	99.60	.15	.10	.15	90	
			F	S	S	S	S	S	
Eastern States Farmers' Exch., Inc., Woodsville									
Corn, Cornell 29-3	5053	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	S	
Corn, Mass. 63 Hybrid, 1334	5055	S	L	99.50	..	..	.50	92	
			F	S	S	S	S	S	
Corn, Wisconsin 335, 1365	5054	S	L	99.50	..	..	.50	93	
			F	S	S	S	S	S	
Laconia State School, Laconia									
Alsike clover, 1338	4441	S	L	99.00	.40	.30	.30	80	
			F	S	S	S	S	S	
Red clover, Kenland, 1339	4443	S	L	99.50	.16	.10	.24	60	
			F	S	S	S	S	S	
Timothy, 1336	4442	S	L	99.60	.15	.10	.15	90	
			F	S	S	S	S	S	
EDGEWOOD FARMS, INC., Marysville, Ohio									
J. J. Moreau & Son, Inc., Manchester									
Grass Seed, Haven, 206	4462	S	L		..	.39	3.43		
			F		S	S	S		
Creeping red fescue			L	25.88				80	
			F	S				S	
Perennial ryegrass			L	24.72				85	
Domestic ryegrass			L	26.68				85	
Ryegrass			F	S				S	

Alta fescue			L	19.73			85	
			F	S			S	
White clover			L	3.17			60	
			F	S			S	
W. T. Grant & Co., Rochester								
White Dutch clover, 4-878002	4692	S	L	97.00	1.00	.49	1.51	60	Purity below guarantee.
			F	87.80	11.56	S	S	S	Other crop seed excessive.
FARMERS' FEED & SUPPLY CO., Colebrook* **								
Farmers' Feed & Supply Co., Colebrook								
Alsike clover	4989	S	L	98.70	1.00	.15	.15	75	No lot number given.
			F	S	S	S	S	S	
Brome grass, domestic	4995	S	L	97.90	.06	.02	2.02	85	No lot number given.
			F	S	S	S	S	S	
Red clover, Med.	4992	S	L	99.56	.26	.02	.16	80	No lot number given.
			F	S	S	S	S	S	
Redtop	4988	S	L	92.50	1.50	1.00	5.00	81	No lot number given.
			F	S	S	S	S	S	
CHAS. C. HART SEED CO., Wethersfield, Conn.								
Bemis I. G. A., Walpole								
White Dutch clover	4669	S	L	99.20	.40	.20	..	94	No lot number given.
			F	S	S	S	S	83	Germination below guarantee.
Kiniry Hardware, Claremont								
Lawn seed, Evergreen, C 218	4844	S	L		..	.37	3.68		
			F		S	S	S		
Domestic ryegrass			L	29.70				90	
			F	S				S	
Chewing fescue			L	19.80				90	
			F	S				S	
Timothy			L	14.70				90	
			F	S				S	
Meadow fescue			L	13.95				90	
Alta fescue			L	9.30				90	
			F	S				S	
Kentucky bluegrass			L	8.50				75	
			F	S				50.5	Germination below guarantee.
White Dutch clover, Lot B	4843	S	L	99.13	.53	.17	.17	78	
			F	S	S	S	S	S	
GEORGE K. HIGBIE CO., Rochester, N. Y.								
Arthur LaBombard, Lebanon								
Barley, Moore, 533	4828	S	L	99.40	.17	.16	.27	90	
			F	S	S	S	S	79	Germination below guarantee.
Corn, Hybrid 151 Higbie, 335	4827	S	L	99.50	.05	..	.45	90	
			F	S	S	S	S	S	
HOFFMAN FARM SEEDS, Landisville, Pa.								
Farmers' Feed & Supply Co., Colebrook								
Corn, Funks G, 1521	4993	S	L	99.50	..	..	.50	95	
			F	S	S	S	S	S	

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KENDALL & WHITNEY, Portland, Me.				(Note)	(Note)	(Note)	(Note)	(Note)	
Joudrey Hardware, Gorham									
Lawn Seed, Velvet, 921	4941	S	L		.40	.45	5.16		
			F		S	S	S		
Domestic ryegrass			L	26.73				90	
			F	S				S	
Red fescue			L	25.76				85	
			F	S				S	
Alta fescue			L	19.20				85	
			F	S				S	
Rough bluegrass			L	8.80				80	
			F	S				S	
Kentucky bluegrass			L	8.50				75	
			F	S				S	
White clover			L	5.00				65	
			F	S				S	
CHAS. McCULLOUGH SEED CO., Cincinnati, Ohio									
Moulton Hardware & Gen'l Store, Ossipee									
Timothy, 6520 ..	4936	S	L	99.60	.35	.00	.05	90	
			F	S	S	S	S	S	
MERRIMACK FARMERS' EXCH., INC., Concord									
Merrimack Farmers' Exch., Inc., Derry									
Orchard grass, 37590	4895	S	L	87.70	.55	.85	8.90	69	
			F	S	S	S	S	S	
Ryegrass, Domestic, 3466	4893	S	L	99.00	.05	.50	.45	94	
			F	S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Exeter									
Alsike clover, N.B., 575	4544	S	L	99.30	.30	.25	.15	88	
			F	S	S	S	S	S	
Red clover, Medium, 24126	4541	S	L	99.28	.46	.20	.06	85.5	
			F	S	S	S	S	S	
Redtop, 41604	4543	S	L	95.60	.20	.80	3.40	89	
			F	S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Goffstown									
Lawn seed, Lot 102	4511	S	L		.30	.32	2.68		
			F		S	S	S		
Kentucky bluegrass			L	8.65				80	
			F	S				S	
Rough bluegrass			L	9.60				80	
			F	S				S	
Creeping red fescue			L	36.75				85	
			F	S				S	
Common ryegrass			L	24.75				90	
			F	S				S	
Redtop			L	9.55				90	
			F	S				S	
White Dutch clover			L	7.40				90	
			F	S				S	

Merrimack Farmers' Exch., Inc., Peterboro									
Alfalfa, Ranger, 27-162	4555	S	L	99.60	..	.05	.35	94	
			F	S	S	S	S	S	
Alsike clover, N. B., 575	4553	S	L	99.30	.30	.25	.15	88	
			F	S	S	S	S	S	
White Dutch clover, 226814	4556	S	L	97.85	1.80	.15	.20	90	
			F	S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Pittsfield									
Corn, Cornell 29-3, 5310	4600	S	L	99.50	..	..	.50	93	
			F	S	S	S	S	S	
Corn, Leaming, 3755	4598	S	L	99.00	..	..	1.00	91	
			F	S	S	S	S	S	
Corn, Ohio M-15, 4011 A	4599	S	L	99.50	..	..	.50	83	
			F	S	S	S	S	S	
Corn, Wisconsin 240, 3810	4597	S	L	99.50	..	..	.50	91	
			F	S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Woodsville									
Mangels, Long Red, 3-1-A	5042	S	L					..	
			F					66	
N. H. Industrial School, Manchester									
Kentucky bluegrass, 32785	4480	S	L	86.70	.10	.50	12.70	78	
			F	S	S	S	S	S	
Ladino clover, 02630	4481	S	L	99.70	.10	.05	.15	74	
			F	S	S	S	S	S	
Sudan grass, N 1626	4483	S	L	98.00	.10	..	.90	80	
			F	S	S	S	S	S	
White Dutch clover, N 122-O-V512	4482	S	L	99.30	.63	..	.07	94	
			F	S	S	S	S	S	
N. H. Dept. of Public Works and Highways, Concord									
Special Mix No. 54	4809	S	L						No guarantee for other crop, weed seeds or inert matter.
			F		.75	.25	1.20		
Timothy			L	40.00				90	
			F	S				S	
Redtop			L	40.00				90	
			F	S				S	
White Dutch clover			L	10.00				91	
			F	S				S	
Alsike clover			L	10.00				91	
			F	S				S	
N. H. State Hospital									
Alfalfa, Ranger, 271662	4645	S	L	99.60	..	.05	.35	94	
			F	S	S	S	S	S	
Corn, Cornell 29-3, M21C2C29-F3 21-JH-4	4640	S	L	99.97	..	..	.03	95	
			F	S	S	S	S	S	
Ladino clover, P. B. 2078	4646	S	L	99.80	..	.05	.15	93	
			F	S	S	S	S	S	
Redtop, 41604	4648	S	L	95.60	.20	.80	3.40	89	
			F	S	S	S	S	S	

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MOULTON & GOODWIN, Portsmouth* **				(Note)	(Note)	(Note)	(Note)	(Note)	
Moulton & Goodwin, Portsmouth									
Alfalfa, Ranger	4916	S	L	99.50	.02	.02	.46	71	
			F	S	S	S	S	S	No lot number given.
NORTHRUP, KING & CO., Minneapolis, Minn.									
E. W. Bailey, Inc., of N. H., Colebrook									
Corn, Stanford, Silobred HS 1953	4973	S	L	99.50	..	..	.50	95	
			F	S	S	S	S	S	
THE PAGE SEED CO., Greene, N. Y.									
Folansbee Feed Store, Lebanon									
Corn, Cornell 29-3, 3004	4837	S	L	99.00	..	..	1.00	89	
			F	S	S	S	S	S	
Corn, Smoky Dent, 2011	4838	S	L	99.00	..	..	1.00	85	
			F	S	S	S	S	S	
Corn, Westbranch Sweepstakes 3001	4836	S	L	99.00	..	..	1.00	90	
			F	S	S	S	S	S	
Redtop, L 13853	4840	S	L	92.20	.80	..	6.20	85	
			F	S	S	S	S	S	
Timothy, L 33854	4839	S	L	99.60	.10	.05	.25	88	
			F	S	S	S	S	S	
Joslin Hardware, Wilton									
White clover, L 10, 4454B	4788	S	L	99.65	.15	..	.20	88	
			F	S	S	S	S	S	
PHILADELPHIA SEED CO., Philadelphia, Pa.									
The Market Basket, New London									
Grass seed mixture, Comet, 476	4832	S	L		..	1.00	10.67		
			F		4.53	S	S		Other crop seed excessive.
Domestic ryegrass			L	49.50				90	
Perennial ryegrass			L	9.80				85	
			F	S				S	
Redtop			L	10.00				80	
			F	S				63.5	Germination below guarantee.
Timothy			L	11.52				85	
			F	S				S	
Creeping red fescue			L	4.75				85	
			F	S				68	Germination below guarantee.
Thompson & Hoague Co., Concord									
Grass Seed, Lot 446	4990	S	L		..	1.00	6.82		
			F		S	S	S		
Redtop			L	12.60				80	
			F	S				S	
Domestic ryegrass			L	44.50				90	
Perennial ryegrass			L	10.89				90	
			F	S				S	
Timothy			L	9.80				85	
			F	S				S	
Kentucky bluegrass			L	8.60				75	
			F	S				S	

Chewing fescue			L	2.94			85	
			F	S			S	
White clover			L	2.85			60	
			F	S			S	
O. M. SCOTT & SONS CO., Marysville, Ohio								
J. J. Moreau & Son, Inc., Manchester								
Merion bluegrass, 1-8214	4471	S	L	90.76	..	..	9.24	73	
			F	S	S	S	S	S	
White clover, No. 22	4474	S	L	98.00	..	.09	1.91	70	
			F	S	S	S	S	S	
Osgood Hardware, Nashua								
Clovex, White clover No. 27 and inert carrier	4833	S	L	51.23	..	.06	48.71	70	
			F	S	2.69	S	S	S	Other crop seed excessive.
SEARS ROEBUCK & CO., Chicago, Ill.								
Sears, Roebuck & Co., Keene								
Grass seed, Cross Country, Special purpose Mixture, Lot 4033	4615	S	L		.02	.29	8.02		
			F		S	S	S		
Trivialis bluegrass			L	25.85				90	
			F	S				S	
Creeping red fescue			L	26.41				90	
			F	S				S	
Redtop			L	4.82				90	
Highland (Colonial bent)			L	9.85				85	
Agrostis spp. (Redtop and Colonial bent)			F	S				57.5	Germination below guarantee.
Perennial ryegrass			L	5.95				90	
Domestic ryegrass			L	23.79				90	
			F	S				S	
White clover seed, Mixed, Lot 4006	4628	S	L		.25	.20	1.55		
			F		S	S	S		
White clover			L	90.00				77	
			F	S				S	
Alsike clover			L	8.00				77	
			F	S				S	
STANFORD SEED CO., Buffalo, N. Y.									
E. W. Bailey, Inc., of N. H., Colebrook									
Corn, Treat, Wisconsin 335, 2374	4976	S	L	99.50	..	..	.50	93	
			F	S	S	S	S	S	
Japanese millet, 1165	4975	S	L	98.34	..	1.40	.26	80	
			F	S	S	S	S	S	
Dover Grain Co., Dover									
Alsike clover, 5251	4746	S	L	97.50	1.83	.35	.32	70	
			F	S	S	S	S	S	
Redtop, 5179	4747	S	L	92.00	.50	2.40	5.10	90	
			F	S	S	S	S	S	
Timothy, 5091	4748	S	L	99.60	.10	.10	.20	85	
			F	S	S	S	S	S	
White clover, 2550	4749	S	L	97.05	2.75	.10	.10	71	
			F	S	S	S	S	S	

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STANFORD SEED CO.,				(Note)	(Note)	(Note)	(Note)	(Note)	
Buffalo, N. Y. (Continued)									
Londonderry Grain Co., Londonderry									
Alfalfa, Grimm, No. 2721	4824	S	L	99.30	.30	.20	.20	70	
			F	S	S	S	S	S	
Red clover, Medium, 5292	4823	S	L	99.20	.40	.15	.25	70	
			F	S	S	S	S	S	
Timothy, 5091	4822	S	L	99.60	.10	.10	.20	85	
			F	S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Derry									
Alfalfa, Cert. Ranger, 5240	4892	S	L	99.78	.02	.04	.16	87	
			F	S	S	S	S	S	
Reed canary grass, 2515	4897	S	L	99.64	.01	.05	.30	70	
			F	S	S	S	S	S	
Merrimack Farmers' Exch., Inc., Peterboro	4554	S	L	99.60	.10	.10	.20	90	
Timothy, 5290			F	S	S	S	S	S	
N. H. State Hospital, Concord									
Timothy, 5290	4647	S	L	99.60	.10	.10	.20	90	
			F	S	S	S	S	S	
Wirthmore Feed Co., Nashua									
Alfalfa, Grimm, 2721	4680	S	L	99.30	.30	.20	.20	70	
			F	S	S	S	S	S	
Buckwheat, 5008	4679	S	L	99.90	.02	..	.08	80	
			F	S	S	S	S	40	Germination below guarantee.
Red clover, Medium, 5292	4678	S	L	99.20	.40	.15	.25	70	
			F	S	S	S	S	S	
Sudan grass, 5300	4681	S	L	98.00	.05	.25	1.70	80	
			F	S	S	S	S	S	
Wirthmore Feed Co., Manchester									
Alfalfa, Grimm, No. 2721	4876	S	L	99.30	.30	.20	.20	70	
			F	S	S	S	S	S	
Hungarian millet, 2494	4877	S	L	99.00	.10	.10	.80	85	
			F	S	S	S	S	S	
WHITNEY SEED CO., Buffalo, N. Y.									
Checkerboard Feed Store, Manchester									
Alfalfa, Ranger, 2132	4787	S	L	99.86	..	.04	.10	85	
			F	S	S	S	S	S	
Alsike clover, 1567	4783	S	L	98.70	1.00	.15	.15	75	
			F	S	S	S	S	S	
Buckwheat, 8790	4784	S	L	99.10	.31	.12	.47	85	
			F	S	S	S	S	S	
Oats, Clinton, 146	4785	S	L	99.50	..	.02	.48	94	
			F	S	S	S	S	S	
Timothy, 1220	4786	S	L	99.20	..	.10	.20	90	
			F	S	S	S	S	S	

Dodge Grain Co., Salem Depot									
Alfalfa, N. W. Common, 2138	4732	S	L	99.26	.30	.18	.26	90	
			F	S	S	S	S	73	Germination below guarantee.
Alsike clover, Imperator, 1567	4730	S	L	98.70	1.00	.15	.15	75	
			F	S	S	S	S	S	
Corn, Cornell 29-3, 71380	4736	S	L	99.75	..	..	.25	92	
			F	S	S	S	S	S	
Corn, Yellow Sweepstakes, 70679	4737	S	L	99.50	..	..	.50	85	
			F	S	S	S	S	S	
Hungarian millet, 48542	4735	S	L	99.36	.02	.20	.42	80	
			F	S	S	S	S	S	
Japanese millet, 46578	4734	S	L	98.11	..	1.87	.02	80	
			F	S	S	S	S	S	
Red clover, Imperator, 50655	4729	S	L	99.42	.30	.06	.22	83	
			F	S	S	S	S	S	
Redtop, Imperator, 40552	4733	S	L	92.20	.80	1.00	6.00	90	
			F	S	S	S	S	S	
Timothy, 1220	4728	S	L	99.70	..	.10	.20	90	
			F	S	S	S	S	79	Germination below guarantee.
White clover, Prime, 56360	4731	S	L	98.10	1.50	.15	.25	70	
			F	S	S	S	S	S	
Farmers' Feed & Supply Co., Berlin									
Buckwheat, 8193	5000	S	L	99.24	.21	.14	.41	85	
			F	S	S	S	S	S	
Rye, Winter, Balboa, 83398	5002	S	L	97.81	.66	.01	1.52	82	
			F	S	S	S	S	S	
Ryegrass, 44613	5001	S	L	99.36	.02	.10	.52	90	
			F	S	S	S	S	S	
Farmers' Feed & Supply Co., Colebrook									
Corn, Early August, 70685	4996	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	72	Germination below guarantee.
Soybeans, Black Wilson, 66470	4994	S	L	99.49	.21	.01	.29	90	
			F	S	S	S	S	S	
Farmers' Feed & Supply Co., Lancaster									
Buckwheat, 8193	4999	S	L	99.24	.21	.14	.41	85	
			F	S	S	S	S	S	
Corn, Funk's G 188 Hybrid, G188	5003	S	L	99.50	..	..	.50	90	
			F	S	S	S	S	S	
Corn, Wisconsin 335, 71388	5004	S	L	99.50	..	..	.50	94	
			F	S	S	S	S	S	
Ladino clover, Certified	4997	S	L	99.85	..	.05	.10	90	No lot number given.
			F	S	S	S	S	73	Germination below guarantee.
White clover, 56351	4998	S	L	99.40	.35	.20	.05	90	
			F	S	S	S	S	S	
Farmers' Feed & Supply Co., Lebanon									
Alsike clover, 1567	4906	S	L	98.70	1.00	.15	.15	75	
			F	S	S	S	S	S	
Birdsfoot trefoil, Empire, 5970	4903	S	L	98.55	1.35	.05	.05	58	
			F	S	S	S	S	S	
Corn, Funk's C7 188 Hybrid, G188	4909	S	L	99.75	..	..	.25	90	
			F	S	S	S	S	S	

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WHITNEY SEED CO., Buffalo, N. Y. (Continued)				(Note)	(Note)	(Note)	(Note)	(Note)	
Farmers' Feed & Supply Co., Lebanon (Continued)									
Ladino clover, Certified, 56259	4905	S	L	99.85	..	.05	.10	80	
			F	S	S	S	S	S	
Mixture, 1376	4904	S	L		.10	.12	.20		
			F		S	S	S		
Timothy			L	79.68				..	Guarantee for germination of each kind of seed should be stated separately.
			F	S				92.5	
Alsike clover			L	19.90				..	
			F	S				76	
Redtop, 40552	4908	S	L	92.20	.80	1.00	6.00	90	
			F	S	S	S	S	S	
Timothy, 1213	4907	S	L	99.60	.30	.05	.05	90	
			F	S	S	S	S	S	

It is presumed that the following samples of seed were carried over by the dealer from the previous season; hence, the name of the wholesaler is omitted.

Lakes Region Feed Co., Laconia									
Grass Seed, Fairlawn, 707	4771	6/1953	L		.50	.75	5.37		Not tested within 9 months.
			F		S	S	S		
Domestic ryegrass			L	34.65				90	
			F	S				S	
Timothy			L	25.48				90	
			F	S				S	
Kentucky bluegrass			L	12.00				75	
			F	S				42	Germination below guarantee.
Redtop			L	12.75				85	
			F	S				S	
Meadow fescue			L	4.75				80	
			F	S				23	Germination below guarantee.
White clover			L	3.75				65	
			F	S				S	
Farmers' Feed & Supply Co., North Haverhill									
Oats, 42-44	4957	3/1953	L	98.00	1.60	.20	.20	85	Not tested within 9 months.
			F	S	S	S	S	S	No lot number given.

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New Hampshire Experiment Station

VEGETABLE SEED INSPECTION, 1954

Name and Address of Wholesaler Name and Address of Dealer or Place Collected Kind of Seed	Sample No.	Date Tested*	Germination		
			Found	Guaranteed**	N. H. Standard
			(Note)		
ALLEN, STERLING & LOTHROP, Portland, Me.					
Carroll County Hardware, North Conway					
Beans, Brittle Wax	4978	S	S	90	75
Beans, Improved Golden Wax	4979	S	S	85	75
Beans, Low's Champion	4981	S	S	90	75
Beans, Pencil Pod Black Wax	4983	S	S	90	75
Peas, Gradus	4977	S	S	87	80
Peas, Sutton's Excelsior	4980	S	S	88	80
Peas, Tall Telephone	4982	S	S	90	80
I. G. Young Feed Store, North Stratford					
Beet, Detroit Dark Red	4970	S	S	..	65
Carrot, Danvers Half Long	4972	S	S	..	55
Cucumber, Long Green	4969	S	S	..	80
Cucumber, Straight Eight	4968	S	S	..	80
Squash, Acorn	4966	S	56.5	..	75
Squash, Blue Hubbard	4965	S	60	..	75
Squash, Buttercup	4971	S	S	..	75
Squash, Green Hubbard	4967	S	S	..	75
ASSOCIATED SEED GROWERS, INC., Cambridge, N. Y.					
Bernard's Hardware, East Jaffrey					
Beans, Burpee's Stringless	4612	S	S	85	75
Beans, Improved Golden Wax	4611	S	S	90	75
Beans, Pencil Pod Black Wax	4613	S	S	90	75
Corn, Golden Bantam	4614	S	S	85	75
Peas, Laxton's Progress	4610	S	S	89	80
Peas, Telephone	4609	S	S	89	80
Louis Blicker, Winchester					
Carrot, Coreless Nantes	4429	S	S	55	55
Lettuce, White Paris Cos	4430	S	S	80	80
Parsley, Champion Moss Curled	4432	S	S	60	60
Farmers' Feed & Supply Co., Haverhill					
Cucumber, Cubit	5056	S	S	80	80
Lettuce, Prizehead	5058	S	S	80	80
Spinach, Bloomsdale Savoy-leaved	5057	S	S	65	60
Farmers' Feed & Supply Co., Hillsboro					
Carrot, Improved Long Orange	4811	S	S	55	55
Cauliflower, Early Snowball	4813	S	S	75	75
Cucumber, Cubit	4810	S	S	80	80
Onion, Yellow Globe Danvers	4812	S	S	75	70
Hick's Hardware, Colebrook					
Beans, Giant Stringless Green Pod	4964	S	S	80	75
Carrot, Chanticleer	4961	S	S	55	55
Cucumber, Marketer	4963	S	S	80	80
Lima Beans, Henderson's	4960	S	S	70	70
Swiss Chard, Fordhook Giant Lucullus	4962	S	S	65	65
ASSOCIATED SEED GROWERS', INC., Milford, Conn.					
Wirthmore Feed Co., Manchester					
Beans, Pencil Pod Black Wax	4871	S	S	85	75
Corn, Golden Bantam, B-Rowed	4872	S	S	90	75
Peas, Thomas Laxton	4874	S	S	90	80
Peas, World's Record	4873	S	S	90	80
ASSOCIATED SEED GROWERS', INC., New Haven, Conn.					
Farmers' Feed & Supply Co., Colebrook					
Beans, Vermont Cranberry	4986	S	S	90	75
Carrot, Danvers Half Long	4987	S	S	90	55
Cucumber, Straight Eight	4991	S	S	90	80
Squash, Blue Hubbard	4984	S	S	87	75
Swiss Chard, Lucullus	4985	S	S	90	65

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			Found	Guaranteed**	N. H. Standard
			(Note)		
AUBUCHON HARWARE, Fitchburg, Mass.					
Aubuchon Hardware, Milford					
Beans, Black Wax	4585	None	S	..	75
Beans, Long Flat Stringless	4583	None	S	..	75
Corn, Golden Bantam	4586	None	S	..	75
Peas, American Wonder	4584	None	S	..	80
Peas, Tall Telephone	4582	None	S	..	80
W. E. AUBUCHON CO., INC., Nashua* **					
W. E. Aubuchon Co., Inc., Nashua					
Beans ,Black Wax	4652	S	S	90	75
Beans, Top Notch Golden Wax	4653	S	S	85	75
Corn, Golden Bantam	4650	S	S	90	75
Peas, American Wonder	4651	S	S	90	80
Peas, Tall Telephone	4649	S	S	90	80
AYERS & JENKINS CO., Rochester, N. H.* **					
Ayers & Jenkins Co., Rochester					
Beans, Stringless Green Pod	4654	S	S	85	75
Beans, Kentucky Wonder	4656	S	41	90	75
Beet, Early Wonder	4664	S	75†	85	65
Carrot, Improved Long Orange	4660	S	S	90	55
Cucumber, Long Green	4661	S	S	90	80
Lettuce, Iceberg	4665	S	S	90	80
Peas, Dwarf Telephone	4658	S	S	85	80
Peas, Sutton's Excelsior	4655	S	S	85	80
Peas, Tall Telephone	4659	S	S	85	80
Peas, World's Record	4657	S	S	85	80
Squash, Blue Hubbard	4662	S	S	90	75
Squash, Green Delicious	4663	S	60	90	75
BRECK'S, Boston, Mass.					
Gardner, Inc., Concord					
Beans, Pencil Pod Black Wax	5079	S	S	90	75
Corn, Golden Bantam	5080	S	S	90	75
Cucumber, Arlington White Spine	5086	S	S	80	80
Onion, Red Wethersfield, 6359	5087	S	S	70	70
Peas, Laxtonian	5081	S	S	85	80
Peas, World's Record	5082	S	S	85	80
C. M. Hildreth Hardware, Lebanon					
Beans, Golden Wax	4857	S	80†	90	75
Beans, Kentucky Wonder Pole	4859	S	S	75	75
Beet, Early Blood Turnip	4861	S	S	90	65
Corn, Golden Midget	4856	S	S	90	75
Peas, Dwarf Telephone	4860	S	S	85	80
Peas, Thomas Laxton	4858	S	S	90	80
Spencer Hardware Co., Keene					
Beet, Crosby's Egyptian, 5305	4727	S	S	65	65
Broccoli, Breck's Selected, 5319	4724	S	S	75	75
Cabbage, Danish Ballhead, 5368	4726	S	S	75	75
Cabbage, Early Jersey Wakefield, 5364	4725	S	S	75	75
Carrot, Chantenay, 5556	4722	S	S	55	55
Lettuce, Iceberg, N. Y. No. 12, 6110	4721	S	S	80	80
Watermelon, Harris Earliest, 6284	4723	S	S	70	70
Young's Hardware, Exeter					
Broccoli, Breck's Selected, 5319	5070	S	S	75	75
Lettuce, Black Seeded Tennis Ball	5068	S	S	80	80
Lettuce, Iceberg, N. Y. No. 12, 6110	5067	S	S	80	80
Lettuce, White Paris Cos, 6142	5066	S	S	80	80
New Zealand Spinach, 7043	5072	S	S	40	40
Onion, Bunching Prosperity Scallions, 6379	5071	S	S	70	70
Spinach, Bloomsdale Long Standing, 7061	5089	S	S	60	60
Watermelon, N. H. Midget, 6273	5069	S	S	70	70

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			(Note)		
BURNHAM & MORRILL CO., Portland, Me.					
B. & M. Canning, Pittsfield					
Corn, Dirego	4949	S	S	80	75
Corn, Medium E Golden Hybrid	4946	S	S	80	75
Corn, Hybrid E	4947	S	S	80	75
Corn, Tricross	4950	S	S	80	75
W. ATLEE BURPEE, Philadelphia, Pa.					
N. H. Stores, Inc., Manchester					
Beans, Burpee's Stringless	4865	S	S	75	75
Beet, Detroit Dark Red	4867	S	S	75	65
Brussels Sprouts, Long Island Improved	4870	S	S	80	70
Cabbage, Danish Round Head, 5001	4869	S	S	80	75
Corn, Golden X Bantam	4866	S	S	80	75
Corn, Golden Midget	4862	S	S	80	75
Peas, Burpena Early Dwarf	4864	S	S	80	80
Peas, Fordhook	4863	S	S	80	80
Radish, Comet	4868	S	S	80	75
Spencer Hardware Co., Keene					
Carrot, Chantenay, 5016	4711	S	S	65	55
Carrot, Danvers Half Long, 6016	4712	S	S	65	55
Carrot, Tendersweet, 6015	4710	S	S	65	55
Lettuce, Big Boston, 5028	4714	S	S	80	80
Lettuce, Salad Bowl, 6042	4713	S	S	80	80
Onion, Southport Yellow Globe, 5275	4715	S	S	75	70
Squash, Golden Summer Crookneck, 6103	4716	S	S	80	75
THE COUNTY STORES, INC., Milford, N. H.*					
The County Stores, Inc., Milford					
Beans, Arlington	4576	S	S	85	75
Beans, Horticultural Pole	4574	S	S	..	75
Beans, Bush Shell Pea	4580	S	S	81	75
Beans, Red Kidney	4581	S	S	75	75
Corn, Yellow Standard	4575	S	S	80	75
Muskmelon, Bender's Surprise	4577	S	S	80	75
Muskmelon, Granite State	4578	S	S	85	75
Parsnip, Hollow Crown	4579	S	51	65	60
CROSSMAN SEED CORP., East Rochester, N. Y.					
Montgomery Ward Co., Claremont					
Beans, Stringless Green Pod	5023	S	S	80	75
Beet, Crosby's Egyptian	5008	S	S	80	65
Beet, Detroit Dark Red	5009	S	S	80	65
Corn, Golden Cross Bantam, P51 x P39	5006	S	S	90	75
Lettuce, Big Boston	5012	S	S	85	80
Lettuce, Romaine	5021	S	S	80	80
New Zealand Spinach	5019	S	S	70	40
Onion, Red Wethersfield	5022	S	S	70	70
Parsnip, Hollow Crown	5015	S	S	..	60
Parsnip, Hollow Crown (cellophane env.)	5010	S	S	70	60
Peas, Alaska	5005	S	S	90	80
Radish, Early Scarlet Turnip	5011	S	S	80	75
Radish, French Breakfast	5020	S	S	80	75
Rutabaga Turnip, American Purple Top	5018	S	S	85	75
Spinach, Giant Nobel	5013	S	S	70	60
Squash, Early Golden Summer Crookneck	5017	S	S	85	75
Tomato, Marglobe, Wilt Resistant	5014	S	S	80	75
Turnip, Purple Top White Globe	5016	S	S	80	80
Watermelon, Stone Mountain	5007	S	S	80	70
EASTERN STATES FARMERS' EXCH., INC.,					
West Springfield, Mass.					
Eastern States Farmers' Exch., Inc., Concord					
Asparagus, California 500, Lot V839 14	4571	S	71†	85	70
Broccoli, Early One, V564 202	4572	S	S	85	75
Carrot, Danvers 126, Lot V 545 333	4569	S	S	80	55
Carrot, Hutchinson	4568	S	S	85	55
Lettuce, White Boston, V 763-A 523	4573	S	S	90	80
Swiss Chard, Fordhook Giant, V 161 185	4570	S	S	90	65

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			(Note)		
EASTERN STATES FARMERS' EXCH., INC., West Springfield, Mass. (Continued)					
Eastern States Farmers' Exch., Inc., Dover					
Cucumber, A & C Special, V 680-A 416	4759	S	S	80	80
Muskmelon, Emerald Gem, V 21 562	4760	S	S	80	75
Muskmelon, Golden Delight, V 5 558	4758	S	S	80	75
Squash, Blue Hubbard, V 924 797	4761	S	S	85	75
Squash, Blue Hubbard (Colby Strain) V 903 794	4762	S	S	90	75
Squash, Early Prolific Straight Neck V 174 782	4763	S	S	90	75
Eastern States Farmers' Exch., Inc., Manchester					
Beet, Eastern Wonder, V 878 126	4540	S	S	80	65
Beet, Perfected Detroit, V 780 146	4535	S	S	80	65
Cabbage, Bonanza, V 844-A 245	4538	S	S	85	75
Celery, Emerson Pascal, V 726 384	4536	S	S	90	55
Lettuce, Oak Leaf, V 950 547	4533	S	S	90	80
Onion, Yellow Globe Danvers, V 84 596	4537	S	S	85	70
Pepper, Italian Sweet, V 623 733	4534	S	S	85	55
Tomato, Eastern States F1, V 905 936	4532	S	S	85	75
Tomato, Marglobe, V 916 929	4531	S	S	85	75
Tomato, Rutgers, V 809 935	4530	S	80†	90	75
Tomato, Valiant, V 806 918	4539	S	S	90	75
Eastern States Farmers' Exch., Inc., Woodsville					
Beans, Pencil Pod Black Wax, V 124-1 45	5050	S	S	90	75
Beans, Long Tendergreen, V 932 787	5044	S	S	80	75
Beet, Eastern Wonder, V 878 126	5046	S	S	80	65
Cabbage, Golden Acre, V 985 232	5047	S	S	85	75
Corn, Butter and Sugar, V 139 427	5051	S	S	90	75
Corn, Carmelcross 30.13, V 969-A 445	5045	S	S	90	75
Muskmelon, Emerald Gem, V 31 562	5048	S	S	80	75
Radish, Cavalier, V 981 835	5049	S	S	85	75
Laconia State School, Laconia					
Cabbage, Oakview Ball Head, V 152 267	4440	S	S	90	75
Carrot, Chantenay, V 848 326	4446	S	S	80	55
Corn, Early Golden 13.2, V 142 441	4448	S	S	89	75
Cucumber, MR 17, V 952 404	4447	S	S	80	80
Lettuce, Great Lakes, V 568 517	4437	S	S	85	80
Parsnip, Model, V 86 643	4439	S	S	75	60
Peas, World's Record, V 118 1	4444	S	S	95	80
Pepper, Early Giant, V 73 132	4438	S	S	85	55
Squash, Blue Hubbard, V 924 797	4445	S	S	85	75
Swiss Chard, Burpee's Rhubarb	4449	S	S	..	65
N. H. State Prison					
Beans, Contender	4455	S	S	90	75
Beans, French's Horticultural	4454	S	51	80	75
Beans, Tekoa	4451	S	S	75	75
Corn, Golden X Bantam	4450	S	S	90	75
Lima Beans, Fordhook 242	4453	S	S	80	70
Peas, Hundredfold	4452	S	S	85	80
FERRY-MORSE SEED CO., Detroit, Mich.					
A. & P., Raymond					
Beans, Kentucky Wonder, Rust Resistant	4520	S	S	75	75
Corn, Hybrid, Fore Most Y-1	4521	S	S	80	80
Cucumber, Straight Eight	4519	S	S	85	80
Lettuce, Black Seeded Simpson	4517	S	S	90	80
Lettuce, White Boston, Butterhead	4518	S	S	90	80
J. J. Newberry Co., Concord					
Carrots, Red Cored Chantenay	5076	S	S	90	55
Celery, Golden Yellow, Self-Blanching	5077	S	S	80	55
Cucumber, Improved Long Green	5074	S	S	95	80
Lettuce, New York	4958	S	S	80	80
Mustard, Southern Giant Curled	5075	S	S	75	75
Okra, Perkins' Mammoth Long Pod	4959	S	S	65	50
Onion, Southport Yellow Globe	5078	S	S	85	70

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			(Note)		
FREDONIA SEED CO., Fredonia, N. Y.					
Bemis I. G. A., Walpole					
Cucumber, Early Cluster	4673	S	S	80	80
Lettuce, Black Seeded Simpson	4675	S	S	80	80
Onion, Prizetaker	4674	S	S	70	70
Radish, Early Scarlet White Tip	4676	S	S	75	75
White Cross Market, Raymond					
Beans, Stringless Green Pod	4499	S	S	80	75
Beans, Golden Wax	4498	S	S	80	75
Carrot, Improved Long Orange	4504	S	S	55	55
Carrot, Ox-heart	4505	S	S	55	55
Corn, Golden Bantam Improved	4495	S	S	75	75
Corn, Golden X Bantam	4494	S	S	75	75
Cucumber, Improved White Spine	4503	S	S	80	80
Lima Beans, Henderson's Bush	4496	S	S	80	70
Onion, Red Wethersfield	4502	S	S	70	70
Parsnip, Hollow Crown	4501	S	S	60	60
Peas, Bush Early Alaska	4497	S	S	80	80
Turnip, Purple Top, Flat Strap Leaf	4500	S	S	80	80
CHAS. C. HART SEED CO., Wethersfield, Conn.					
Bemis I. G. A., Walpole					
Beans, French Horticultural Dwarf Shell	4670	S	S	85	75
Beans, Dwarf Shell Vermont Cranberry	4671	S	S	85	75
Beans, Pencil Pod Black Wax	4667	S	S	85	75
Peas, World's Record	4668	S	S	85	80
Kiniry Hardware, Claremont					
Parsley, Moss Curled	4841	S	S	60	60
Squash, Butternut	4842	S	67	75	75
Sunshine Stores, Inc., West Lebanon					
Beans, Dwarf Shell French Horticultural	4889	S	67	..	75
Beans, Soldier	4882	S	S	90	75
Corn, Early Pearl	4883	S	57	..	75
Corn, Marcross, 13 X	4885	S	S	85	75
Corn, Spancross Hybrid 3 x 13	4887	S	S	85	75
Squash, Table Queen, Des Moines	4886	S	S	..	75
BUDD D. HAWKINS CO., Reading, Vt.					
Louis Blicker, Winchester					
Cabbage, Danish Ball Head	4431	S	S	75	75
Carrot, Improved Long Orange	4426	S	S	55	55
Cucumber, Straight Eight	4427	S	S	80	80
Parsnip, Improved Hollow Crown	4428	S	S	60	60
Bemis I. G. A., Walpole					
Lettuce, Early Prize Head	4677	S	S	80	80
Parsnip, Improved Hollow Crown	4672	S	S	60	60
Cavis Bros., Bristol					
Radish, Cherry Belle	4738	S	S	75	75
Radish, Long White Icicle	4739	S	S	..	75
Fadden Hardware, North Woodstock					
Radish, New French Breakfast	4956	S	S	75	75
Goodnow Bros., East Jaffrey					
Beet, Early Blood	4635	S	S	65	65
Cucumber, Improved Long Green	4638	S	S	80	80
Lettuce, Early Curled Simpson	4637	S	S	80	80
Pumpkin, Small Sugar or Pie	4636	S	S	75	75

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			(Note)		
BILLY HEPLER SEED CO., Durham, N. H.					
Industrial School, Manchester					
Beet, Detroit Dark Red	4485	S	S	85	65
Cabbage, Bonanza	4486	S	S	80	75
Corn, Golden X Bantam	4489	S	S	90	75
Corn, Golden Rocket	4487	S	S	90	75
Muskmelon, Granite State	4490	S	S	82	75
Radish, Early Scarlet Globe	4488	S	S	90	75
Spinach, American	4491	S	S	80	60
Squash, Butternut	4493	S	S	90	75
Swiss Chard, Fordhook Giant	4492	S	S	70	65
Watermelon, N. H. Midget	4484	S	S	84	70
Spaulding Co., Lancaster					
Muskmelon, Granite State	4954	S	S	88	75
Squash, Baby Blue	4952	S	78†	92	75
Tomato, Doublerich	4953	S	48	85	75
D. LANDRETH SEED CO., Philadelphia, Pa.					
Kashulines Grain Co., Nashua					
Beet, Detroit Dark Red	4847	S	S	70	65
Carrot, Danvers Half Long	4845	S	S	70	55
Celery, Giant Pascal	4849	S	S	60	55
Endive, Full Heart Batavian Escarolle	4855	S	S	75	70
Lettuce, Black Seeded Simpson	4852	S	S	80	80
Lettuce, Iceberg	4853	S	S	80	80
Pepper, California Wonder	4854	S	S	80	55
Pepper, California Wonder	4850	S	S	80	55
Radish, Early Scarlet Globe	4846	S	S	85	75
Radish, White Icicle	4851	S	S	85	75
Spinach, Bloomsdale Long Standing	4848	S	S	75	60
MANDEVILLE & KING CO., Rochester, N. Y.					
Spencer Hardware Co., Keene					
Beans, Sure Crop Wax	4720	S	S	80	75
Corn, Golden Bantam	4718	S	S	80	75
Cucumber, Boston Pickling	4717	S	S	85	80
Onion, Southport Yellow Globe	4719	S	S	75	70
MERRIMACK FARMERS' EXCH., INC., Concord, N. H.					
Merrimack Farmers' Exch., Inc., Exeter					
Beans, Plentiful, 3-1-D	4550	S	S	..	75
Beans, Trout, 35-1-D	4545	S	S	..	75
Beans, Wade, 3-1-B	4546	S	S	..	75
Corn, Grant, 3-1-E	4552	S	S	..	75
Corn, Iochief, 3-1-E	4547	S	S	..	75
Corn, Stowell's Evergreen, 3-1-A	4551	S	S	..	75
Lima Beans, Fordhook Bush No. 242, 3-1-A	4548	S	S	..	70
Soybeans, Giant Green, 17-1-A	4549	S	S	..	75
Merrimack Farmers' Exch., Inc., Goffstown					
Pepper, Merrimack Wonder, 17-1-A	4507	S	S	..	55
Tomatoes, Bonny Best, 3-1-B	4508	S	S	..	75
Tomatoes, Home Garden, 15-1-A	4506	S	S	..	75
Tomatoes, Marglobe, 3-1-A	4509	S	S	..	75
Tomatoes, N. H. Victor, 27-1-A	4510	S	S	..	75
Merrimack Farmers' Exch., Inc., Milford					
Beans, Flash, 23-1-B	4608	S	63	..	75
Beans, Red Kidney, 3-2-E	4606	S	S	..	75
Beans, Soldier, 4-1-A	4607	S	S	..	75
Beans, Yellow Eye, 4-1-A	4605	S	S	..	75
Cucumber, Arlington White Spine, 3-1-B	4604	S	S	..	80
Cucumber, Boston Pickling, 3-1-B	4601	S	S	..	80
Cucumber, Long Green, 3-1-C	4602	S	S	..	80
Cucumber, Marketer, 3-1-E	4603	S	S	..	80
Merrimack Farmers' Exch., Inc., Nashua					
Beans, Pencil Pod Black Wax, 3-1-B	4834	S	S	..	75
Beans, Yellow Eye, 4-1-A	4835	S	59	..	75

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MERRIMACK FARMERS' EXCH., INC., Concord, N. H. (Continued)					
Merrimack Farmers' Exch., Inc., Ossipee					
Peas, Gradus, 3-1-A	4940	S	S	..	80
Peas, Laxton's Progress, 3-1-C	4939	S	S	..	80
Squash, Blue Hubbard, 14-1-B	4937	S	S	..	75
Rutabaga Turnip, American Improved Yellow	4938	S	S	..	75
Merrimack Farmers' Exch., Inc., Peterboro					
Cucumber, Arlington White Spine, 3-1-C	4565	S	S	..	80
Cucumber, Boston Pickling, 3-1-B	4566	S	S	..	80
Cucumber, Marketer, 3-1-E	4558	S	S	..	80
Cucumber, National Pickling, 3-1-E	4559	S	S	..	80
Cucumber, Straight Eight, 3-1-C	4557	S	S	..	80
Onions, Danvers Yellow Globe, 3-1-A	4560	S	S	..	70
Onion, Southport White Globe, 3-1-B	4567	S	S	..	70
Pumpkin, Sugar, 3-1-B	4561	S	S	..	75
Watermelon, Merrimack Sweetheart, 27-1-B	4563	S	S	..	70
Watermelon, N. H. Midget, 3-1-C	4564	S	S	..	70
Watermelon, Improved White Mountain, 27-1-E	4562	S	S	..	70
Merrimack Farmers' Exch., Inc., Pittsfield					
Broccoli, Early Calabrese, 3-1-B	4591	S	S	..	75
Cabbage, Danish Ball Head, 3-1-B	4594	S	S	..	75
Cabbage, Early Round Dutch, 25-1-D	4593	S	S	..	75
Cabbage, Golden Acre, 3-1-D	4592	S	S	..	75
Carrots, Chantenay Red Core, 3-1-B	4596	S	S	..	55
Carrots, Danvers Half Long, 3-1-C	4595	S	S	..	55
Endive, Deep Heart, 3-1-B	4590	S	S	..	70
Parsley, Moss Curled, 3-1-C	4589	S	S	..	60
Merrimack Farmers' Exch., Inc., Rochester					
Corn, Golden Cross Bantam, 3-1-A (HGS)	4689	S	S	..	75
Corn, High Quality Seneca "60", 24-1-A (HGS)	4691	S	S	..	75
Corn, Marcross, 3-1-A (HGS)	4690	S	S	..	75
Corn, Top Cross Maine Bantam, 3-1-C (HGS)	4688	S	S	..	75
Merrimack Farmers' Exch., Inc., Warner					
Beans, Fordhook Bush Lima, 242, 3-1-A	4686	S	S	..	70
Cabbage ,Early Round Dutch, 25-1-D	4683	S	S	..	75
Cucumber, Arlington White Spine, 3-1-C	4684	S	S	..	80
Lettuce, A-36, 3-1-A	4685	S	S	..	80
Parsnip, Hollow Crown, 3-1-C	4687	S	S	..	60
Squash, Early Prolific Straightneck, 3-1-C	4682	S	S	..	75
Merrimack Farmers' Exch., Inc., Woodsville					
Beans, Pencil Pod Black Wax, 3-1-B	5041	S	S	..	75
Beets, Winter Keeper, 3-1-A	5043	S	S	..	65
Corn, Iochief, 3-1-E	5040	S	S	..	75
Pumpkin, Connecticut Field, 3-1-A	5037	S	S	..	75
Pumpkin, Sugar, 3-1-B	5039	S	S	..	75
Spinach, New Zealand, 3-1-C	5038	S	S	..	40
Swiss Chard, Lucullus, 3-1-B	5036	S	S	..	65
N. H. State Hospital, Concord					
Beans, Burpee's Stringless Green Pod	4641	S	S	..	75
Corn, Kingscrost, N 113	4639	S	S	..	75
Peas, Dwarf Telephone	4644	S	S	..	80
Peas, World's Record	4643	S	S	..	80
J. J. MOREAU & SON, INC., Manchester* **					
J. J. Moreau & Son, Inc., Manchester					
Beans, Burpee's Stringless Green Pod	4463	S	S	90	75
Beans, French Horticultural	4469	S	S	90	75
Beans, Kentucky Wonder	4478	S	S	90	75
Beans, Pencil Pod	4477	S	S	88	75
Beets, Detroit Dark Red	4476	S	S	85	65
Carrots, Danvers Half Long	4467	S	S	80	55
Corn, Golden Bantam	4468	S	S	90	75
Corn, Golden Sunshine	4473	S	S	86	75

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J. J. MOREAU & SON, INC., Manchester* (Continued)**					
J. J. Moreau & Son, Inc., Manchester (Continued)					
Cucumber, Improved Long Green	4479	S	S	90	80
Peas, Dwarf Telephone	4470	S	74.5	90	80
Peas, Improved Telephone	4465	S	70	90	80
Peas, Thomas Laxton	4464	S	80†	90	80
Radish, Early Scarlet Globe	4466	S	S	90	75
MOULTON & GOODWIN, Portsmouth, N. H.* **					
Moulton & Goodwin, Portsmouth					
Beans, King Horticultural Pole	4914	S	77†	90	75
Beans, Red Kidney	4913	S	S	86	75
Beet, Detroit Dark Red	4923		S	83	65
Cabbage, Danish Ball Head	4920	S	S	86	75
Cucumber, Long Green	4921	S	S	90	80
Parsnip, All American	4922	S	S	85	60
Peas, Little Marvel	4911	S	S	88	80
Peas, Nott's Excelsior	4912	S	S	88	80
Radish, Scarlet Globe	4910	S	S	88	75
Rutabaga, Purple Top	4919	S	S	90	75
NORTHRUP, KING & CO., Minneapolis, Minn.					
Aubuchon Hardware, Milford					
Beans, Pencil Pod Black Wax	4588	S	S	75	75
Peas, Little Gem	4587	S	S	80	80
Champagne's Super-Market, Manchester					
Carrot, Danvers Half Long	4461	S	S	55	55
Corn, Extra Early Golden Bantam	4456	S	S	75	75
Cucumber, Boston Pickling	4459	S	S	80	80
Parsnip, Imp. Hollow Crown Guernsey	4457	S	S	60	60
Peas, Alaska or Earliest of All	4460	S	S	80	80
Tomato, Spark's Earliana	4458	S	S	75	75
Holt's Department Store, Raymond					
Asparagus, Washington Rust Resistant	4514	S	S	70	70
Beans, Tendergreen	4515	S	S	75	75
Broccoli, Green Sprouting or Calabrese	4512	S	S	75	75
Corn, Extra Early Golden Bantam	4516	S	S	75	75
Tomato, Yellow Pear	4513	S	67	75	75
J. J. Moreau & Son, Inc., Manchester					
Beets, Early Wonder	4472	S	S	65	65
Beets, Perfected Detroit	4475	S	S	65	65
H. W. Taylor, Hinsdale					
Corn, Country Gentleman	4433	S	S	75	75
Cucumber, Boston Pickling	4436	S	S	80	80
Endive, Green Curled	4434	S	S	70	70
Pumpkin, Early Sugar	4435	S	S	75	75
F. W. Woolworth, Concord					
Carrots, Nantes or Coreless	5060	S	S	55	55
Cucumber, Boston Pickling	5059	S	S	80	80
Cucumber, Chicago Pickling	5062	S	S	80	80
Cucumber, Straight Eight	5063	S	S	80	80
Lettuce, Grand Rapids	5064	S	S	80	80
Pepper, California Wonder	5065	S	S	55	55
Radish, Crimson Giant	5061	S	S	75	75
THE PAGE SEED CO., Greene, N. Y.					
E. W. Bailey, Colebrook					
Peas, Improved Dark Pod Telephone	4974	S	S	90	80
Peas, Thomas Laxton	5073	S	S	90	80
Gardner, Inc., Concord					
Carrots, Danvers Half Long	5083	S	S	75	55
Lettuce, Grand Rapids	5085	S	S	85	80
Parsley, Moss Curled	5084	S	S	75	60
Rhubarb Chard	5088	S	S	85	65

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PAGE SEED CO., Greene, N. Y. (Continued)					
Goodnow Bros. Co., East Jaffrey					
Beans, Dwarf Horticultural, AG 849	4633	S	S	85	75
Beans, Pencil Pod Black Wax, A633 854	4629	S	S	85	75
Beans, Tendergreen, A 279 953	4631	S	S	85	75
Corn, Gold Rush Hybrid, B27-3854	4630	S	S	90	75
Corn, Golden Bantam	4632	S	S	90	75
Corn, Golden Sunshine, B142 653	4634	S	S	85	75
Joslin Hardware, Wilton					
Beans, Improved Golden Wax	4795	S	S	85	75
Beans, Kentucky Wonder	4794	S	S	..	75
Cabbage, Danish Ball Head	4791	S	S	80	75
Carrot, Danvers Half Long	4792	S	S	75	55
Carrot, Imperator	4789	S	S	75	55
Lettuce, Premier Great Lakes	4790	S	S	80	80
Spinach, American	4796	S	S	85	60
Swiss Chard, Large White Rib	4793	S	S	80	65
Seavey Hardware, Dover					
Beet, Detroit Dark Red	4756	S	65†	75	65
Carrot, Chantenay	4754	S	S	75	55
Peas, Laxton's Progress	4753	S	S	85	80
Rhubarb Chard	4755	S	66.5†	85	65
GEORGE PRITCHARD CO., Dover, N. H.					
George Pritchard Co., Dover					
Corn, Golden Bantam	4740	S	S	90	75
Corn, Golden Sunshine	4745	S	S	90	75
Peas, Laxtonian	4743	S	S	90	80
Squash, Blue Hubbard	4744	S	S	..	75
Squash, Improved Green Hubbard	4741	S	77†	88	75
Watermelon, N. H. Midget	4742	S	S	85	70
ROBSON SEED CO., Hall, N. Y.					
B. & M. Canning, Pittsfield					
Corn, Seneca Garden, 12142	4948	S	S	98	75
Merrimack Farmers' Exch., Inc., Concord					
Corn, Carmelcross	4412	S	S	95	75
Corn, Hybrid Seneca Golden Crown	4415	S	S	94	75
Corn, Hybrid Seneca, 60 HQ	4413	S	S	90	75
RANDOLPH SEED CO., East Randolph, N. Y.					
Milligan & Currier, Manchester					
Beans, Kentucky Wonder Pole	4779	None	42	..	75
Beans, Pencil Pod Black Wax	4780	None	S	..	75
Beans, Stringless Golden Wax	4781	None	26	..	75
Beet, Detroit Dark Red	4772	None	S	..	65
Cabbage, Danish Ball Head	4782	None	44.5	..	75
Cabbage, Golden Acre	4775	None	66.5	..	75
Carrot, Danvers Half Long	4776	None	S	..	55
Corn, Golden Bantam	4778	None	55	..	75
Cucumber, Long Green Improved	4777	None	S	..	80
Endive, Broad Leaved Batavian	4774	None	65.5	..	70
Peas, Dwarf Telephone	4773	None	S	..	80
J. B. RICE, JR., INC., Sushan, N. Y.					
Nelson Hardware, Andover					
Beans, Ruby Dwarf Horticultural	4830	S	S	85	75
Corn, Golden Bantam	4831	S	S	90	75
Peas, Topper	4829	S	S	85	80
ROGER BROS. SEED CO., Chicago, Ill.					
B. & M. Canning Co., Pittsfield					
Corn, 10 Gold 51	4951	S	S	87	75

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ROSS BROS. CO., Worcester, Mass.					
Hopkins Bros. & Belcher, Greenfield					
Beans, Stringless Green Pod	4806	S	S	..	75
Beet, Crosby's Early Egyptian	4800	S	S	..	65
Beet, Dewing's Early Blood	4801	S	S	..	65
Carrot, Chantenay	4805	S	S	..	55
Carrot, Danvers Half Long	4802	S	S	..	55
Corn, Golden Cross Bantam	4807	S	S	..	80
New Zealand Spinach	4808	S	S	..	40
Peas, Extra Early Blue Bantam	4804	S	S	..	80
Radish, Early Scarlet Globe	4797	S	S	..	75
Radish, White Icicle	4799	S	S	..	75
Squash, Blue Hubbard	4803	S	S	..	75
Tomatoes, Marglobe	4798	S	S	..	75
SEARS, ROEBUCK & CO., Chicago, Ill.					
Sears, Roebuck & Co., Keene					
Beets, Detroit Dark Red	4616	S	S	70	65
Broccoli, Italian Green Sprouting	4617	S	S	75	75
Cabbage, Premium Late Flat Dutch	4618	S	S	80	75
Carrot, Chantenay	4619	S	S	55	55
Carrot, Danvers	4620	S	S	55	55
Carrot, Imperator	4622	S	S	55	55
Carrot, Nancy	4621	S	S	55	55
Egg Plant, Black Beauty	4625	S	S	65	60
Endive, Green Curled	4624	S	S	70	70
Lettuce, Big Boston	4623	S	S	80	80
Onion, Asgrow Y42	4626	S	S	..	70
Parsnip, Hollow Crown	4627	S	S	..	60
F. H. WOODRUFF & SONS, INC., Milford, Conn.					
Granite State Feed Store, Hillsboro					
Beet, Crosby's Egyptian, 43789C	4818	S	S	85	65
Beet, Detroit Dark Red, 1-542	4815	S	S	85	65
Carrot, Danvers Half Long, 1-541	4816	S	S	80	55
Carrot, Improved Long Orange, 43572	4817	S	S	85	55
Squash, Butternut, 1-5191	4820	S	S	90	75
Squash, Early Summer Crookneck, 1-466C	4821	S	S	90	75
Squash, Improved Hubbard, 1-2262C	4814	S	S	88	75
Swiss Chard, Lucullus	4819	S	S	85	65
Merrimack Farmers' Exch., Inc., Concord					
Beans, Pencil Pod Black Wax	4414	S	S	90	75
Beans, Brittle Wax	4411	S	S	90	75
Beans, Burpee's Stringless Green Pod	4407	S	S	90	75
Beans, Cherokee Wax	4402	S	S	90	75
Carrot, Danvers Half Long Strain	4422	S	S	90	55
Lettuce, Boston Curled	4418	S	S	90	80
Lettuce, Penn Lake	4419	S	S	90	80
Onion, Danvers Yellow Globe	4421	S	S	90	70
Onion, Southport White Globe	4420	S	S	88	70
Peas, Dwarf Telephone	4417	S	S	90	80
Peas, Freezonian	4406	S	S	90	80
Peas, Gradus	4404	S	67	80	80
Peas, Improved Telephone	4410	S	S	87	80
Peas, Laxton's Progress	4405	S	S	90	80
Peas, Laxtonian	4416	S	S	90	80
Peas, Little Marvel	4403	S	S	90	80
Peas, Thomas Laxton	4408	S	S	90	80
Peas, World's Record	4409	S	66	86	80
Spinach, Bloomsdale Savoy	4423	S	S	76	60
Squash, Baby Blue	4425	S	S	80	75
Tomato, N. H. Victor	4424	S	S	83	75
Nashua Hardware & Plumbing Supply, Nashua					
Beet, Crosby's Egyptian	4699	S	S	85	65
Carrot, Danvers Half Long	4696	S	S	80	55
Carrot, Improved Long Orange	4695	S	S	85	55
Lettuce, Big Boston	4694	S	S	90	80
Lettuce, New York No. 12	4693	S	S	90	80
Parsnip, Hollow Crown	4698	S	S	85	60
Swiss Chard, Lucullus	4697	S	S	85	65

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F. H. WOODRUFF & SONS, INC., Milford, Conn. (Continued)					
Wirthmore Feed Store, Concord					
Cucumber, Boston Pickling, No. 1-4157	5052	S	S	..	80
Parsnip, Hollow Crown, No. 42467	5090	S	S	..	60
Pumpkin, Connecticut Field, No. 44322	5091	S	S	..	75
Radish, Early Scarlet Globe, No. 2-522	5092	S	S	..	75
Rutabaga, American Purple Top, No. 9-131-C	5093	S	S	..	75
Spinach, Bloomsdale Longstanding, No. 44304	5094	S	S	..	60
Squash, Blue Hubbard, 9-493	5095	S	S	..	75
Swiss Chard, Lucullus, No. 1-453	5096	S	S	..	65
Turnip, Purple Top White Globe, 1-444-1C	5097	S	S	..	80
S. D. WOODRUFF & SONS, INC., Orange, Conn.					
Bibeau's Keene Hardware Co., Keene					
Beet, Early Wonder	4709	S	S	65	65
Carrot, Chantenay Red Cored	4708	S	S	55	55
Carrot, Hutchinson	4707	S	S	55	55
Carrot, Tendersweet	4706	S	S	55	55
Endive, Riccio, Green Curled	4705	S	S	70	70
Muskmelon, Hale's Best	4704	S	S	75	75
Parsley, Moss Curled	4703	S	S	60	60
Pepper, Bell or Bull Nose Sweet	4702	S	S	55	55
Radish, Cherry Belle	4701	S	S	75	75
Radish, Early Scarlet Globe	4700	S	S	75	75
Checkerboard Feed Store, Concord					
Beans, Tendergreen	5026	S	S	75	75
Corn, Golden Bantam	5024	S	S	75	75
Corn, Golden Cross Bantam	5025	S	S	75	75
Cabbage, Chinese	5035	S	S	75	75
Cicoria Di Catalogna, Radichetta	5032	S	60	65	65
Collards, Georgia	5034	S	S	80	80
Lettuce, Black Seeded Simpson	5027	S	S	80	80
Lettuce, Romaine	5028	S	S	80	80
Muskmelon, Hale's Best	5029	S	S	75	75
Okra, Long Green	5033	S	S	50	50
Parsley, Moss Curled	5030	S	S	60	60
Radish, White Icicle	5031	S	S	75	75
Seavey Hardware, Dover					
Beets, Good For All	4750	S	S	60	65
Cucumber, Improved White Spine	4751	S	S	80	80
New Zealand Spinach	4752	S	S	45	40
YOUNG'S HARDWARE, Exeter, N. H.*					
Young's Hardware, Exeter					
Cucumber, White Spine Improved	4934	S	S	82	80
Lettuce, Prizehead	4931	S	S	95	80
Onion, Yellow Globe	4933	S	S	81	70
Parsnip, Hollow Crown	4935	S	S	85	60
Squash, Summer (Variety not stated)	4932	S	S	99	75
Squash, Winter (Variety not stated)	4930	S	S	87	75

* As stated on label. "S" in this column indicates that date of test was in compliance with law. Figures or "None" indicate violation.

** Sometimes stated on label but is not required if vegetable seed is up to standard.

Note: "S" in this column indicates that the sample was satisfactory, — up to standard and within the allowable variation from the guarantee. Figures alone indicate that the sample was below standard.

† After the figure indicates that the sample was up to standard but below guarantee.

*** Retail store labeling its own seed.